**Moving Average**

Summary of the program:

I implemented the MapReduce class using mrjob a library for easier running python scripts on Hadoop clusters. The class is divided into 3 parts :

1. The steps to be taken : The steps function defines the steps for the job ie the mapper function and the reducer function
2. The mapper function
   1. The mapper\_get\_company function is a mapper that takes in a line of input and splits it by a comma.
3. The reducer functions
   1. 2. The reducer\_get\_company function is a reducer that takes in a company and a list of date,price pairs.
   2. 3. The reducer\_get\_sma function is a reducer that takes in a company and a list of date,price,sma triples.
4. The run function runs the job.

Running the MovingAverage mrjob on Hadoop clusters

python your\_mr\_job\_sub\_class.py -r hadoop < input > output

python SMA.py -r hadoop < sampleSMA.txt > output.txt

The Output of Program

